

[54] VASCULAR GRAFT

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[21] Appl. No.: **469,174**

[22] Filed: **Feb. 23, 1983**

Related U.S. Application Data

[63] Continuation of Ser. No. 207,678, Nov. 17, 1980, abandoned.

[51] Int. Cl.³ **A61F 1/00; A61F 1/24**

[52] U.S. Cl. **3/1.4; 128/334 R**

[58] Field of Search **3/1.4, 1; 128/92 C, 128/334 R**

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[57] ABSTRACT

Vascular graft of synthetic material including a tubular member having a braided inner layer and a compliant outer covering layer where the braided layer includes a plurality of interwoven groups of filaments. The filaments can be constructed either of metal or of plastic. The compliant outer covering can be either a sleeve of processed biologic material such as collagen, processed plastic, liquid deposition of biologic material or plastic, or a combination of biologic and plastic materials. The inflow and outflow orifices of the tubular member are at an angle with respect to the longitudinal axis of the graft and are reinforced either by tacking of the filaments to adjoining filaments or by tacking an endless single-strand filament rim to the orifice in addition to reinforcement by the outer covering material. Also, the synthetic vascular graft can have an orifice braided and woven into the tubular member parallel to the longitudinal axis. Additionally, the synthetic vascular graft can have an increasing or decreasing taper.

9 Claims, 10 Drawing Figures

